



SOCOTEC

SOCOTEC MONITORING

A Comprehensive Guide to
Asset Monitoring Solutions



SOCOTEC MONITORING

SOCOTEC Monitoring operates as a division within SOCOTEC UK. SOCOTEC UK is a network of industry-leading experts who empower ambitious businesses at every stage of the asset lifecycle.

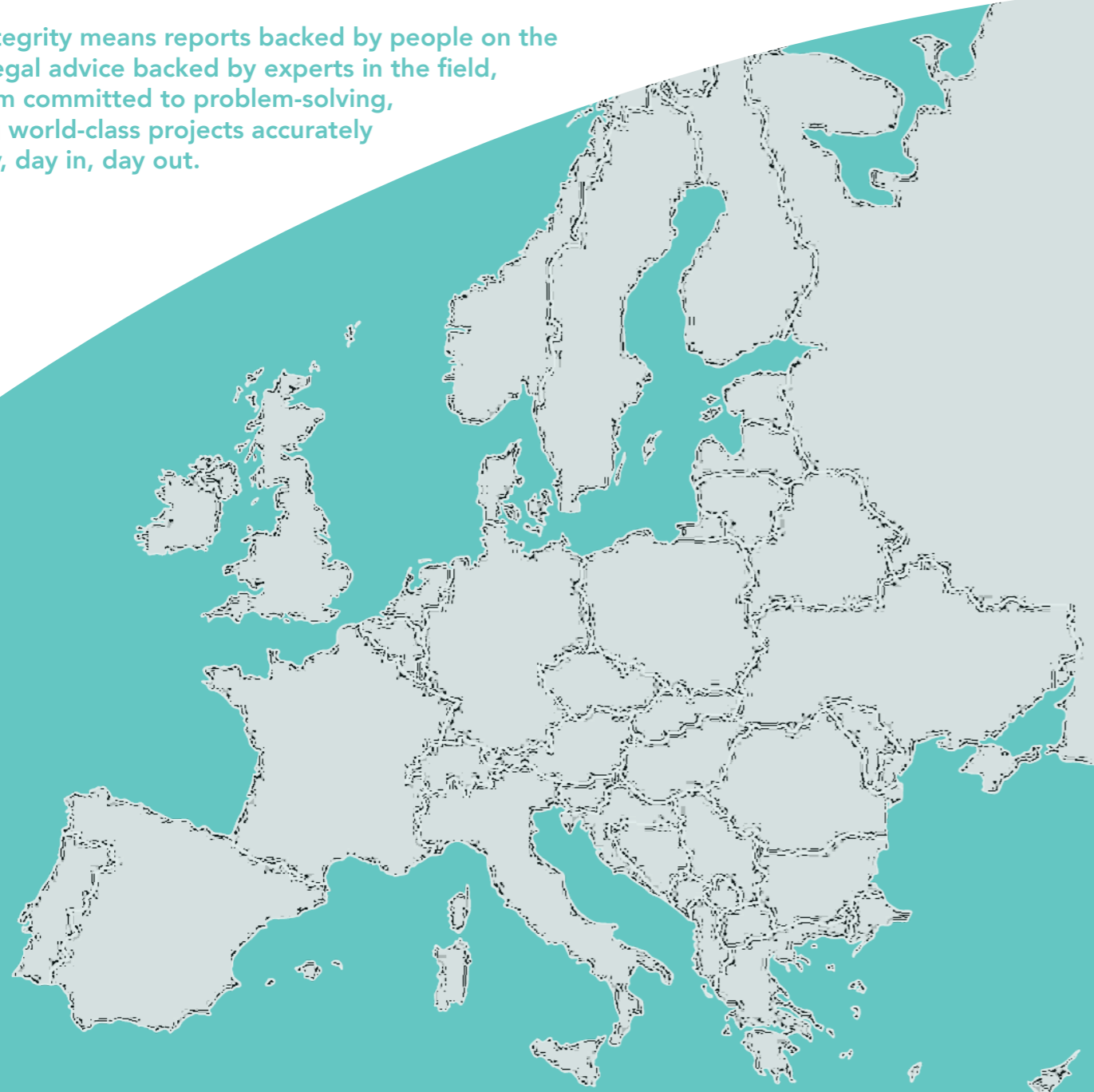
With 2,000 team members, working with over 5,000 companies, everything we do is for the benefit of our clients, who to us become partnered with our entire group.

Whether we're carrying out a one-off inspection or playing our part in creating a city's most inspiring spaces, our clients trust our people's extensive expertise and integrity. Whether in the field, in the lab, on-site or in the courtroom, our advice is built on a foundation of substance.

From, building control, dispute resolution and fire engineering to advanced chemistry and research, environmental consultancy and structural monitoring, all our services come with a focus on technological innovation and sustainable delivery. We distil and share the most complex data in ways which are accessible and ready to action.

SOCOTEC UK is grounded in real-lived expertise, and proud of our team's tenure, who often start out on the ground and grow with our business.

For us, integrity means reports backed by people on the ground, legal advice backed by experts in the field, and a team committed to problem-solving, delivering world-class projects accurately and safely, day in, day out.



SOCOTEC GROUP

SOCOTEC offers solutions to almost every demand for monitoring in the built environment together with a comprehensive platform for the management and visualisation of the data that informs the interested parties about the important elements of their projects.

Our teams of experts play an essential role in the creation of Smart Cities of the future, resilient infrastructures and cutting-edge industrial equipment by leveraging their innovative BIM, CIM and Data Analytics expertise.

Committed to building trust for a safer and sustainable world, we help our clients build in a durable, resilient, inclusive and environmentally friendly way for generations to come.

OUR STRENGTHS

SOCOTEC has developed one of the largest monitoring capabilities in the world. With over 500 people across: UK, US, France, Italy, Spain, Netherlands and Vietnam, SOCOTEC has the expertise and capability to undertake almost any instrumentation & monitoring project in the geo-technical, civil & structural sectors anywhere in the world.

During the complete life cycle, from construction to operation to demolition, the requirement to monitor an asset's behaviour and that of the surrounding environment, is becoming increasingly important.

Having the ability to act upon insightful data to: aid decision making, reduce risk and increase efficiencies is vital for consultants, contractors, owners and operators.

Monitoring systems enable this to happen. These consist of a range of sensors, logging and communication hardware and visualisation platforms and are designed for a specific goal; to measure condition and performance. If any of the monitoring system components are not fit for purpose, the benefits of accurate and insightful data are reduced.

INDUSTRY SECTORS

HIGHWAYS



ENERGY & UTILITIES



WATER & COASTAL ENVIRONMENTS



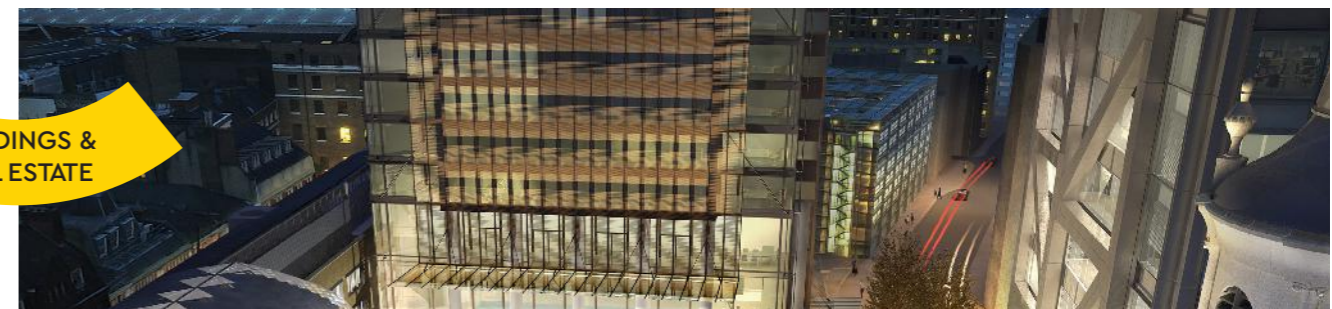
BRIDGES & VIADUCTS



RAIL



BUILDINGS & REAL ESTATE



WHY DO YOU NEED AN INTEGRATOR?

Almost anyone can decide to monitor a parameter on their asset, buy a sensor off the shelf, install it, and then get data from that sensor. However, in order to get the real benefit from a monitoring system the end-to-end process has multiple challenges and complexities that require specialists.

- Really understanding parameter(s) to be measured
- Work with the stakeholders to develop a fit for purpose system
- Integrate hardware and sensor communications from numerous suppliers within the system
- Manage site installation interfaces to ensure safe and quality installation
- Ongoing proactive and reactive support to ensure that the equipment and data remains accurate and consistent
- Safe and quality de-commissioning of equipment

Installing sensors is not monitoring, until the stakeholders are getting quality and insightful data, the task is not complete.

WHY SOCOTEC MONITORING?

For more than 50 years, our teams have been involved with almost every sort of monitoring project and thus have experience of the possible ways of monitoring any civil, structural or geotechnical parameter.

Our SOCOTEC expert team have years of experience and were part of the fundamental development of the industry.

We have national coverage and are currently involved in projects the length and breadth of the UK.

Not only does SOCOTEC Monitoring have a huge track record and ability, but being part of SOCOTEC UK enables a wide range of infrastructure services under the same entity. We work closely together with other divisions to ensure efficient technical and commercial project execution.

These services include:

- Geotechnical Investigation
- Geophysical Surveys
- Materials Testing
- Asbestos Surveys
- Environmental Chemistry
- Building Control and Surveys
- Foundation Testing
- Non-Intrusive Investigation

OUR CAPABILITIES

CIVIL, RAIL & STRUCTURAL ASSESSMENT AND MONITORING

Monitoring the performance of structures like buildings, bridges, tunnels, and railways is vital to ensure their safety and stability. It involves keeping an eye on important factors such as cracks, bearings and expansion joint movement, and rail tilt/cant/heave. By actively monitoring these elements during construction or operation, one can detect vulnerabilities, distribute loads effectively, manage thermal movements, and maintain smooth functioning. This ongoing monitoring helps us prevent issues, enhance safety, and keep our structures in optimal condition.

GEOTECHNICAL MONITORING

Our monitoring team specialises in geotechnical and structural monitoring systems. We excel in designing, installing, and providing data for these systems. With industry-leading expertise in installation and value engineering, we deliver real-time intelligence to manage site conditions reliably and cost-effectively. Our tailored solutions ensure accuracy and efficiency, empowering you to make informed decisions and maintain site integrity. Trust our team for dependable and affordable monitoring solutions.

ENVIRONMENTAL MONITORING

Environmental monitoring is increasingly required for construction and demolition sites. Socotec Monitoring offers support for noise, dust, and vibration monitoring, from baseline to long-term applications. We provide accurate and purposeful data to ensure insights and actionable information. Our integrated approach combines various monitoring requirements into a single site view for better analysis. With our new AI noise monitoring tools, clients can easily identify construction site noise sources. Trust Socotec for reliable environmental monitoring solutions.



OUR CAPABILITIES

ASSET MONITORING

Improved maintenance planning, asset life extension and failure detection are all possible with effective asset monitoring.

At SOCOTEC we've developed our approach to Asset Monitoring to help support engineers make operationally critical decisions and feed into their Asset Management strategy.

In close consultation with the client, we follow a step-by-step process to ensure that monitoring systems are entirely fit for purpose and answer the specific set of questions the engineer asks about the performance of an asset or asset influencing parameters.

- Rail and highways assets
- Dams & reservoirs
- Onshore wind turbines
- Heritage structures (including churches and castles)
- Coal tips and mines



Discuss your asset monitoring requirements with SOCOTEC's experts and specialists to identify any environmental risks and find the most efficient and cost-effective asset monitoring solution.



With over 20 years of experience in delivering bespoke monitoring systems, SOCOTEC can work with existing systems and design entirely new monitoring systems to meet your asset monitoring needs.



SOCOTEC will work with you to install a range of different asset monitoring systems from flood monitoring in rivers, to track monitoring systems in rail infrastructure.



Our data visualisation services can be relied upon to provide a clear view of the data collected via desktop, smartphone or tablet devices. Also by setting up site-specific thresholds, SMS and email action alerts can be issued to those who need them to maintain the integrity and safety of the site.



SOCOTEC offers a wide range of supporting services and advice, such as land, engineering and building surveying services to maintain your assets.





OUR CAPABILITIES SURVEYING

We offer a comprehensive range of Land, Engineering and Building Surveying Services to the Construction, Property Management, Architectural and Facilities Management Industries.

We specialise in developing innovative solutions to complex surveying problems, utilising high quality specialist equipment, hardware and software systems. Where on-cost and on-time delivery is required we prevent delays due to positional inaccuracies and give added value by:

- ▶ Providing quality site control networks
- ▶ Delivering surveys on time and in budget
- ▶ Identifying critical areas and ensuring specifications are met
- ▶ Ensuring accurate, well presented as-built data is delivered for the clients' use.

We are able to undertake survey work of a diverse nature, in all manner of locations. We have been responsible for survey control of large buildings and shopping centres, airport terminals, runways, tunnels, highways and railways as well as historic buildings and archaeological sites. We have carried out hundreds of mapping, topographic and volumetric schemes and deformation monitoring projects. We have extensive building surveying skills and the ability to undertake complex surveys of building floor plans and elevations.

OUR CAPABILITIES DATATYS®

Supporting vital decision-making, DATATYS® is SOCOTEC Monitoring's secure web-based data management and visualisation platform. Its user-friendly graphical interface allows quick and easy interpretation of large amounts of instrumentation data from multiple sources, regardless of project scale. It is fully configurable to suit your unique requirements and accessible online 24/7 from any internet-connected device.

KEY FEATURES

- Simple 'dashboard' view to summarise site conditions at a glance
- Access data from all of your sites through a single portal
- Customisable, scrollable/scalable maps and plans, including image overlay functionality, integrate third-party and historical data
- Multi-level alarming for thresholds, rate of change and relative change, all with full logbook integration
- Advanced graphing engine for customisable plots, including wind rose displays
- Scheduled data downloads and automated reporting
- Geo asset interfaces providing georeferenced links to asset information, including images, websites and documents
- Hosting on Amazon Web Services (AWS) servers, compliant to ISO 27001, providing dedicated connectivity and scalable processing power
- Fully supported by our dedicated data team.



OUR PROJECTS

At Socotec Monitoring, we take pride in delivering effective and reliable monitoring solutions for a wide range of industries and projects. To showcase the success and impact of our services, we present a collection of real-life case studies that highlight the value we bring to our clients.

Our projects include:

- HS2 (S1/S2, C1, C2/C3 and N1/N2)
- Silvertown Tunnel
- Lower Thames Crossing
- One Liverpool Street Development
- 101 Moorgate Development
- South Molton Triangle Redevelopment
- 60 Aldgate Development
- Elephant & Castle Development
- Forth Road Bridge
- Hammersmith Bridge
- Havant Thicket Trial Embankment
- Prestatyn Coastal Defence Scheme
- Multiple Ports including London Gateway and Dover
- Various Highway Schemes
- Various Rail Embankments
- Multiple landslip sites
- Various Onshore Wind Farms
- Over 100 Environmental Monitoring projects in the last 2 years.

OUR LOCATIONS

OUR TEAM



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SOCOTEC GROUP



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COUNTRIES

- Germany
- Saudi Arabia
- Austria
- Belgium
- Colombia
- Ivory Coast
- Spain
- United States
- United Arab Emirates
- France
- Ireland
- Italy
- Japan
- Lebanon
- Luxemburg
- Madagascar
- Morocco
- Mauritius Island
- Monaco
- The Netherlands
- Philippines
- Poland
- United Kingdom
- Singapore
- Thailand
- Vietnam

7
PLATFORMS



€1.2 BN
TURNOVER

250
EXTERNAL
RECOGNITIONS

SOCOTEC MONITORING

100+
PEOPLE

10+
CONTRACTS OVER
£1M SINCE 2020

200+
LIVE PROJECTS

30 000+
SENSORS INSTALLED

5%+
APPRENTICESHIPS
AND EDUCATION

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AND SUSTAINABLE WORLD**